MARINE ENGINES

OF RECIPROCATING SHAFTING STEAM-**ENGINES**

Reciprocating steam-engine installations shall have shafts the diameters of which shall be not less than as given by the following rules, where:

D is the diameter in inches of the low-pressure cylinder, or the equivalent where two or more low-pressure diameter cylinders are used.

S is the stroke of piston in inches. P is the working pressure in the boiler in pounds

P is the working processing per square inch.

r is the ratio of the swept volume of the lowpressure cylinder or cylinders to

i. Diameter in inches of the intermediate shafts

The following are the (a) 2 ("ranks at 90°, Cylinders compound, triple, or quadruple (/;) 2 Cranks at 180", Cylinders compound, triple, or quadruple (c) 3 ('ranks at 120°, Cylinders compound, triple, or quadruple various values of/;